



JG07 Rec'd PCT/PTO 29 APR 2005 PCT

CASE IA/3-22333/PCT

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Anna B. Maddalena  
Type or print name

Anna B. Maddalena 4/27/05  
Signature Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PCT NATIONAL STAGE APPLICATION OF  
JONATHAN HUGHES  
INTERNATIONAL APPLICATION NO. PCT/EP 03/08291  
FILED: JULY 28, 2003  
FOR: PRODUCTION OF FERMENTATION  
PRODUCT  
U.S. APPLICATION NO.: 10/523,302  
35 USC 371 DATE: JANUARY 31, 2005

Group Art Unit:

Examiner:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 CFR 1.56, Applicants wish to call the Examiner's attention to the references cited on the attached forms PTO-1449. Copies of the International Search Report and the references cited therein were supplied when this application entered the U.S. national phase.

Enclosed herewith is a copy of the British Search Report. Except for the U.S. patents, copies of these references along with English language abstracts are enclosed herewith. Also enclosed are copies of the Kim et al and Stenberg et al articles, the NREL article, an Abstract of the Makromol. Chemistry article, EP 105933 and EP 102759.

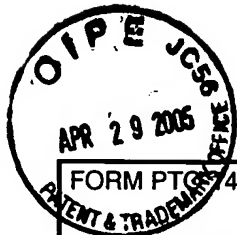
The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 forms.

Respectfully submitted,



Shiela A. Loggins  
Agent for Applicants  
Reg. No. 56,221

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Encl. References  
PTO-1449 Forms  
GB Search Report



FORM PTO 449

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

IA/3-22333/PCT

Application Number

10/523,302

Applicant

JONATHAN HUGHES

Filing Date

JANUARY 31, 2005

Group Art Unit

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,525,218	6/85	Chen et al	127	37	
	5,705,369	1/98	Torget et al	435	105	
	5,628,830	5/97	Brink	127	36	
	5,529,699	6/96	Kuo et al	210	735	
	4,384,897	5/83	Brink	127	37	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	2017707	10/79	Great Britain				
	99/50195	10/99	PCT/World				
	01/34908	5/01	PCT/World				
	94/29475	12/94	PCT/World				
	3107950	9/82	Germany				

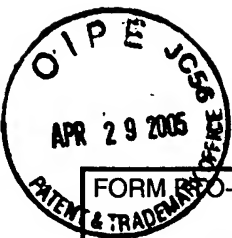
## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Y Kholkin et al., Applied Biochemistry and Biotechnology, Vol. 82, No. 2, pp. 135-140 (1999)
	Derwent Abstr. 1993-150324 for SU 1733477 (1992)
	Derwent Abstr. 1997-488205 for RU 2077594 (1997)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 2 of 4

FORM PTO-1449

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

IA/3-22333/PCT

Application Number

10/523,302

Applicant

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Filing Date

JANUARY 31, 2005

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	61204100	9/86	Japan				
	0150933	8/97	Europe				
	0102759	3/84	Europe				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Tucker et al., Applied Biochemistry and Biotechnology, Vol. 70-72, No. 0, (1998), pp. 25-35
	Shell et al., Applied Biochemistry and Biotechnology, Vol. 70-72, No. 0, (1998), pp. 17-24
	Derwent Abstr. 1982-79144E [38] for DE 3107950 (1982)

EXAMINER

DATE CONSIDERED

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Sheet 3 of 4

INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (Use several sheets if necessary)	Docket Number (Optional)	Application Number
	IA/3-22333/PCT	10/523,302
	Applicant	
	JONATHAN HUGHES	
	Filing Date	Group Art Unit
	JANUARY 31, 2005	

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Derwent Abstr. 1986-281090 [43] for JP 61204100 (1986)
	Kim et al., Applied Biochemistry and Biotechnology, Vol. 91-93, (2001), pp. 253-267
	NREL/TP-580-26157, July 1999, "Lignocellulosic Biomass to Ethanol Process Design and Economics
	Utilizing Co-Current Dilute Acid Prehydrolysis and Enzymatic Hydrolysis Current and Futuristic Scenarios"

EXAMINER	DATE CONSIDERED
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Sheet 4 of 4

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	IA/3-22333/PCT	10/523,302
	Applicant	
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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Stenberg et al., Applied Biochemistry and Biotechnology, Vol. 70-72, (1998), pp. 697-708
	Chem. Abstr. 1985:185565 for Makromolekulare Chemie, (1985), Vol. 186, No. 2, pp. 273-281

EXAMINER	DATE CONSIDERED
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